PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applica	nt's or agent's fi	le reference	T			
1-146	1		FOR FURTHER	ACTION	See Form PCT/IPEA/416	
		International filing dat 10.02.2004	e (day/month/year)	Priority date (day/month/year) 13.02.2003		
A61K3	31 <i>/</i> 60, A61K3	ssification (IPC) or na 11/519, A61K31/41	tional classification and 84, A61P9/00	IPC .		
Applicar BOEH		BELHEIM INTERI	NATIONAL GMBH	& CO. KG		
1. T	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 					
2. T	his REPORT o	consists of a total of	7 sheets, including	this cover sheet.		
3. T	This report is also accompanied by ANNEXES, comprising:					
a.	. 🗆 sent to ti	he applicant and to	the International Bur	eau) a total of sheets,	as follows:	
	⊔ shee and/ Adm	ets of the description or sheets containing inistrative Instruction	n, claims and/or draw g rectifications autho ons).	rings which have been a rized by this Authority (s	nmended and are the basis of this report see Rule 70.16 and Section 607 of the	
	Supp	olemental Box.	- we international ap	plication as filed, as mo	siders contain an amendment that goes icated in item 4 of Box No. I and the	
b.	(sent to to sequence Box Rela	he International Bue International Bue Insting and/or table ting to Sequence L	reau only) a total of (es related thereto, in isting (see Section 8	indicate type and numbe computer readable form 02 of the Administrative	er of electronic carrier(s)) , containing a only, as indicated in the Supplemental Instructions).	
4. Th	is report conta	ains indications rela	ting to the following i	tems:		
\boxtimes	Box No. I	Basis of the opinion	on			
	Box No. II	Priority				
\boxtimes	Box No. III	Non-establishmer	nt of opinion with reas	ard to povolty inventive	step and industrial applicability	
	Box No. IV	Lack of unity of in	vention	ara to noverty, inventive	step and industrial applicability	
×	_ = =	Reasoned statem	ent under Article 35/9	2) with regard to novelty supporting such staten	, inventive step or industrial	
	Box No. VI	Certain document	s cited	0		
	Box No. VII	Certain defects in	the international app	lication		
	Box No. VIII	Certain observation	ns on the internation	al application		
Date of su	Date of submission of the demand		Date of completion of this	s report		
	11.08.2004			25.02.2005		
Name and preliminar	Name and mailing address of the International preliminary examining authority:			Authorized Officer		
<u>)</u>	European F NL-2280 H ¹ Tel. +31 70	Patent Office - P.B. 58 V Rijswijk - Pays Bas 340 - 2040 Tx: 31 65 0 340 - 3016		Leherte, C Telephone No. +31 70 34	40-2748	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/001208

•	E	Box No. I Basis of the report
	l. V fi	Vith regard to the language , this report is based on the international application in the language in which it was led, unless otherwise indicated under this item.
		which is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1(b)) publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3)
2	. W ha re	If the regard to the elements* of the international application, this report is based on (replacement sheets which ave been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this eport as "originally filed" and are not annexed to this report):
	De	escription, Pages
	1-7	as originally filed
	Cla	aims, Numbers
	1-6	as originally filed
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
3.		The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):
4.	had Sup	This report has been established as if (some of) the amendments annexed to this report and listed below polemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):
		If item 4 applies, some or all of these sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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International application No. PCT/EP2004/001208

Box No. III Non-establishmer applicability	et of opinion with regard to novelty, inventive step and industrial				
1. The questions whether the claim.	ed invention appears to be novel, to involve an inventive step (to be non- licable have not been examined in respect of:				
☐ the entire international applic	in respect of.				
☑ claims Nos. 1-3, 5					
because:					
the said international applicat to the following subject matte	the said international application, or the said claims Nos. 1, 2 (with respect to industrial applicability) relate to the following subject matter which does not require an international preliminary examination (specify):				
see separate sheet	see separate sheet				
the description, claims or draw that no meaningful opinion co	e description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear at no meaningful opinion could be formed (specify):				
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.				
□ no international search report	no international search report has been established for the said claims Nos. 1, 3, 5 (all partially)				
the nucleotide and/or amino ac C of the Administrative Instruc	cid sequence listing does not comply with the standard provided for in Annex				
the written form	☐ has not been furnished				
	☐ does not comply with the standard				
the computer readable form	☐ has not been furnished				
	☐ does not comply with the standard				
the tables related to the nucleo not comply with the technical re	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.				
☐ See separate sheet for further of					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/001208

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-6

No: Claims

Inventive step (IS)

Yes: Claims

No: Claims 1-6

Industrial applicability (IA)

Yes: Claims

No: Claims

see seperate sheet

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VI Certain documents cited

1. Certain published documents (Rule 70.10)

and/or

2. Non-written disclosures (Rule 70.9)

see separate sheet

Re Item III.

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

- 1) Claims 1 and 2 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).
- 2) Claims 1, 3 and 5 encompass a genus of compounds defined only by their function ("angiotensin II antagonist"), wherein the relationship between the structural features of the members of the genus and said function have not been defined. In the absence of such a relationship either disclosed in the as-filed application or which would have been recognized based upon information readily available to one skilled in the art, the skilled artisan would not know how to make and use compounds that lack structural definition. The fact that one could have assayed a compound of interest using the claimed assays does not overcome this defect since one would have no knowledge beforehand as to whether or not any given compound (other than those that might be particularly disclosed in an application) would fall within the scope of what is claimed. It would require undue experimentation (be an undue burden) to randomly screen undefined compounds for the claimed activity.

The claims cover all combinations of angiotensin II antagonist with dipyridamole and aspirin, whereas the application provides support and/or disclosure within the meaning of Article 6 PCT for only one such combinations, namely: dipyridamole in combination with acetylsalicylic acid and telmisartan.

In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the pharmaceutical composition, containing dipyridamole in combination with acetylsalicylic acid and telmisartan.

No opinion will be given in respect of subject-matter which is not covered by the search report (Rule 66.1(e) PCT).

Re Item V.

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Attention is drawn to the fact that the present statement expressed as to novelty, inventive step and industrial applicability refers only to matter for which an International Search Report has been drawn up (i.e. only for pharmaceutical compositions, containing dipyridamole in combination with acetylsalicylic acid and telmisartan.

1) INDUSTRIAL APPLICABILITY

For the assessment of the present claims 1 and 2 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

2) DOCUMENTS USED IN EXAMINATION

The following documents are referred to in this communication; the numbering will be adhered to in the rest of the procedure:

D1: WO 01/15673 A

D2: XP000933411, MEDICAL LETTER ON DRUGS AND THERAPEUTICS, vol. 42, no. 1071, pages 11-12

D3: XP009033957, REVUE MEDICALE DE LIEGE, vol. 55, no. 10, 2000, pages 957-959

D4: XP009033969, HEART DRUG, KARGER, vol. 2, no. 2, pages 93-104

Unless indicated otherwise reference is made to the passages considered relevant in the search report.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/EP2004/001208

3) INVENTIVE STEP

The present application does not meet the criteria of Article 33(1) PCT, because the subject matter of claim 1-6 does not involve an inventive step in the sense of Article 33(3)PCT.

The problem to be solved by the present application is the provision of a medicament for the prevention of stroke or reducing the risk of stroke.

The solution proposed by the applicant is a medicament containing dipyridamole in combination with acetylsalicylic acid (ASA) and an angiotensin II antagonist,

Documents D1 discloses the use of AT II antagonists in the manufacture of a medicament for the prevention of stroke.

Document D2, D3 and D4 show that Aggrenox(R) (extended-release dipyridamole and aspirin in combination) are used for the prevention of stroke.

The use of a combination of two or more active ingredients with known identical therapeutic use can only be considered as inventive when a surprising effect, an unexpected high synergistic effect or reduced side effects for example, can be assigned in relation to the claimed therapeutic use. In this respect, the present application lacks supportive evidence.